

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P651979

Luminaire Tested: **GALN-SA6A-840-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16422.2 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

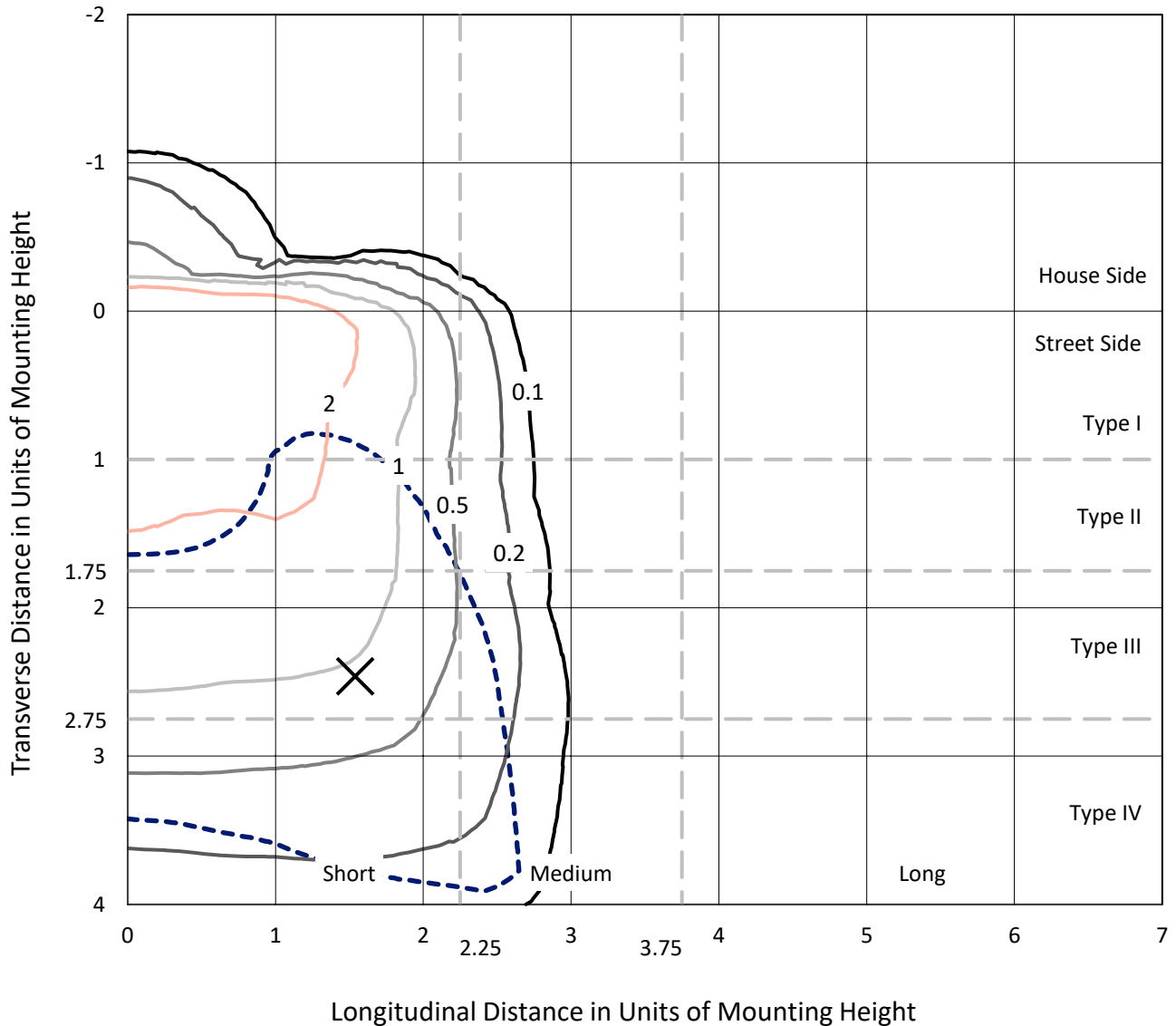
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

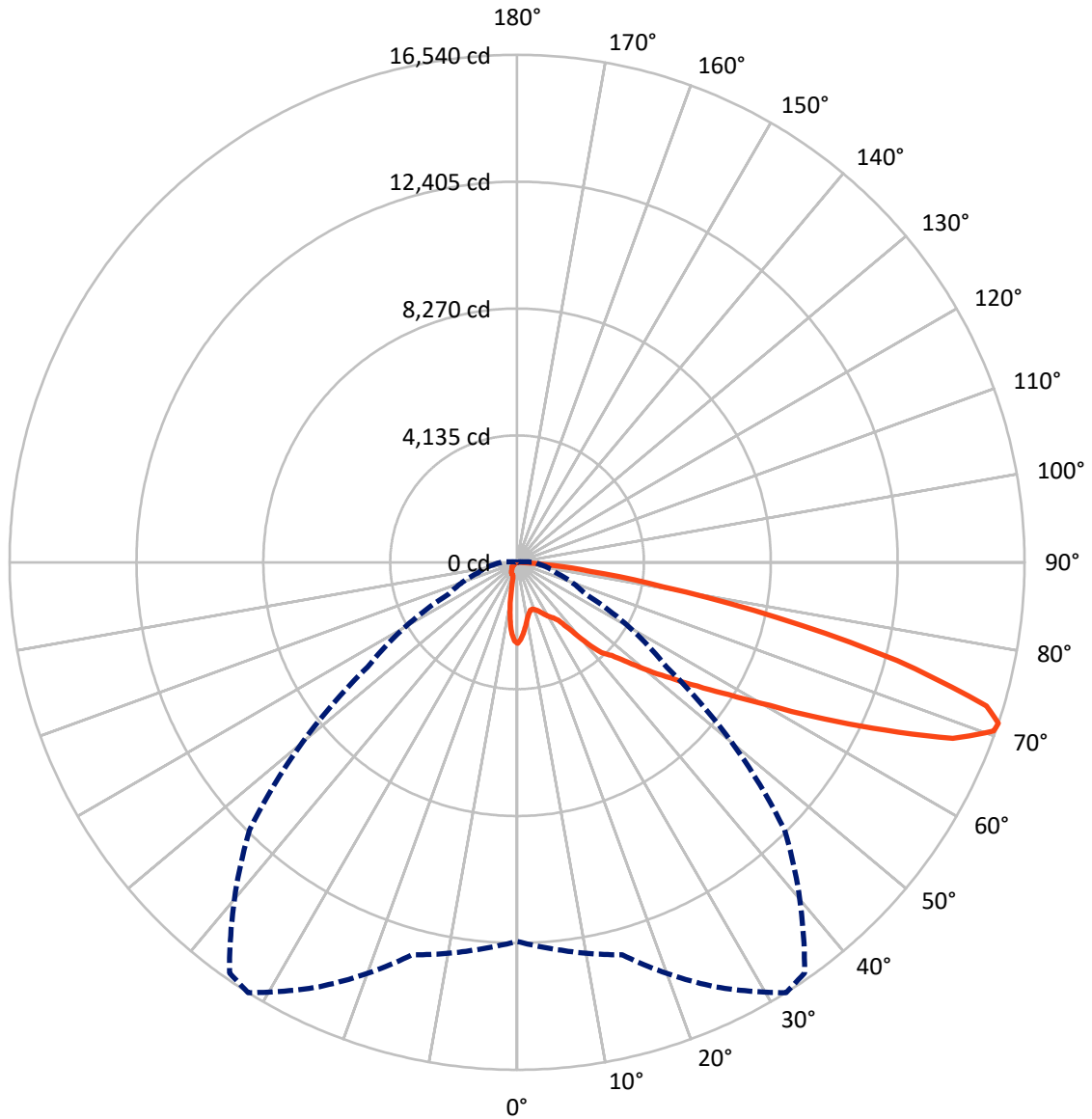
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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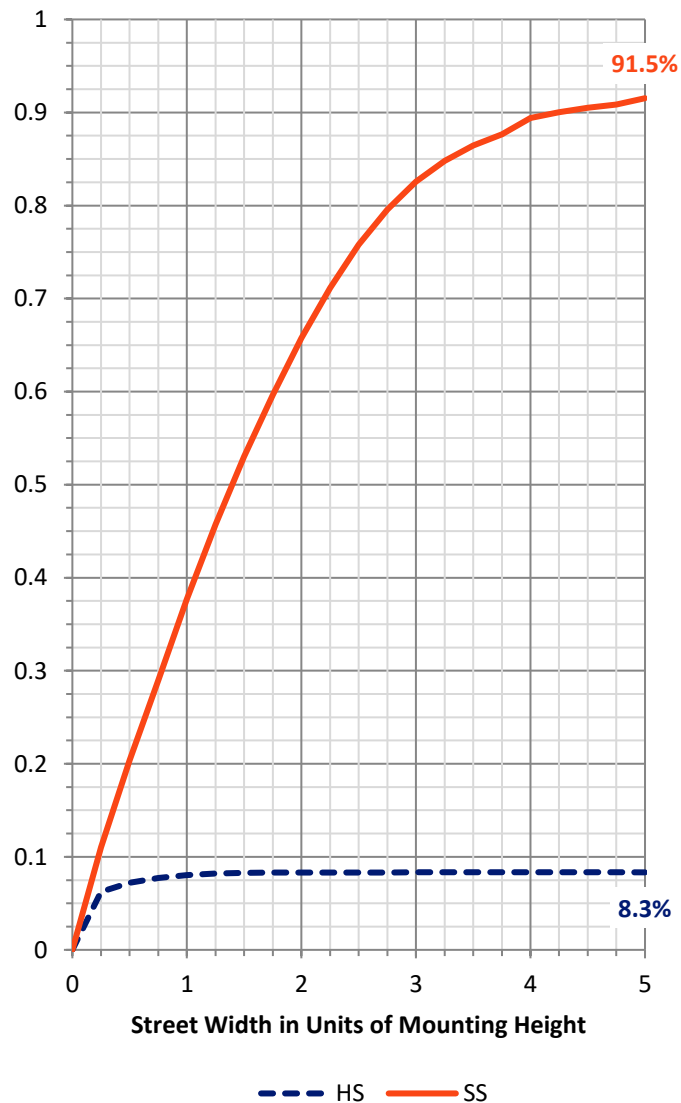
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1375.5	0.0	1375.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	15046.7	0.0	15046.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	16422.2	0.0	16422.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.7	1.3
10°-20°	466.1	2.8
20°-30°	725.1	4.4
30°-40°	1207.9	7.4
40°-50°	2247.0	13.7
50°-60°	3607.6	22.0
60°-70°	4852.4	29.5
70°-80°	2879.0	17.5
80°-90°	222.5	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	16422.2	100.0
0°-180°	16422.2	100.0

Coefficient of Utilization

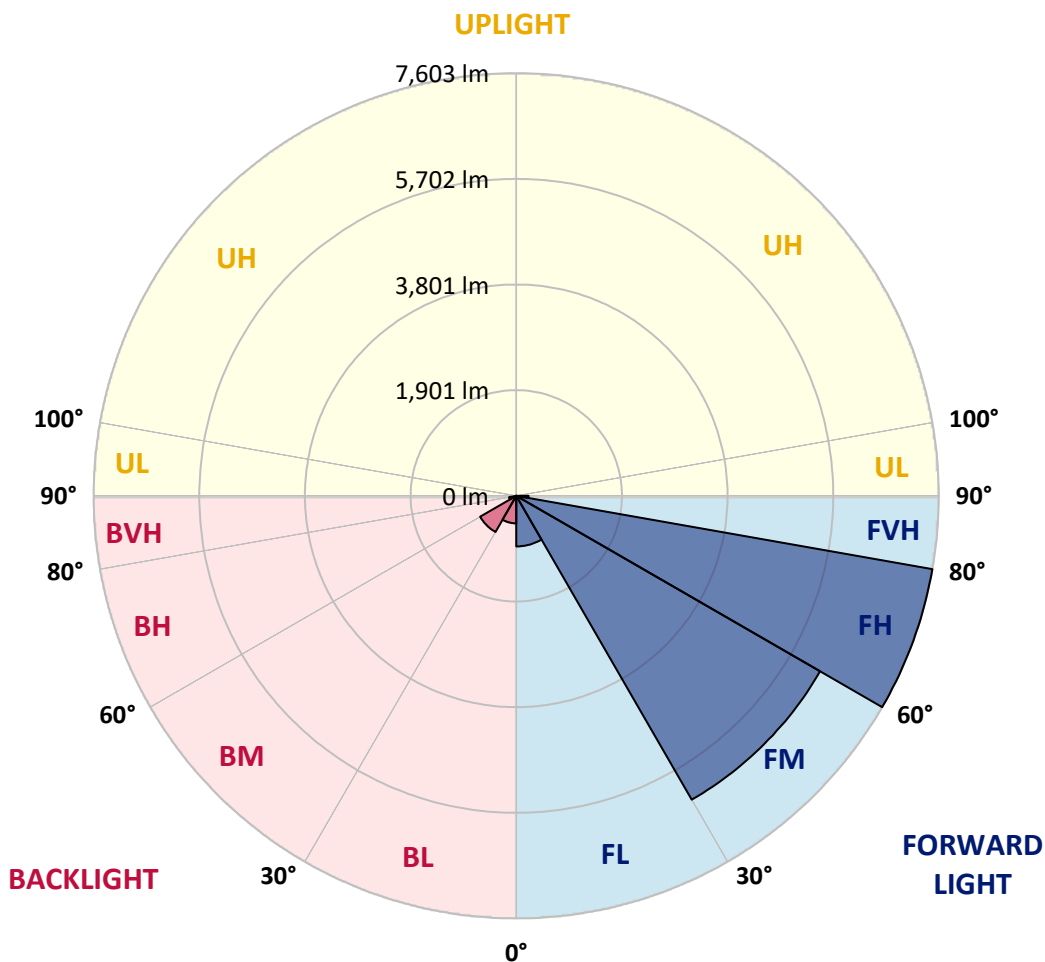


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	910.2	5.5			
FM (30°-60°)	6312.1	38.4			
FH (60°-80°)	7602.7	46.3			G4/12000
FVH (80°-90°)	221.7	1.3			G2/225
BL (0°-30°)	495.6	3.0	B1/500		
BM (30°-60°)	750.4	4.6	B1/1000		
BH (60°-80°)	128.7	0.8	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2640.9	2640.9	2640.9	2640.9	2640.9	2640.9	2640.9	2640.9	2640.9	2640.9	2640.9
2.5°	2449.3	2474.6	2470.8	2479.6	2501.0	2509.9	2533.8	2560.3	2596.8	2622.1	2638.4
5°	2193.4	2212.3	2214.9	2259.0	2280.5	2304.3	2375.0	2451.9	2537.5	2605.7	2651.0
7.5°	1919.9	1930.0	1950.1	2008.1	2062.3	2086.3	2193.4	2327.0	2461.9	2589.3	2671.2
10°	1694.3	1705.5	1742.1	1803.9	1854.3	1885.9	2034.6	2202.2	2391.4	2580.4	2700.2
12.5°	1565.7	1572.0	1585.8	1641.3	1705.5	1739.6	1899.7	2091.3	2334.6	2584.2	2749.4
15°	1556.9	1554.3	1537.9	1560.6	1618.6	1653.9	1810.3	2015.7	2284.2	2596.8	2807.3
17.5°	1603.5	1597.1	1558.1	1558.1	1606.0	1635.0	1772.4	1975.3	2259.0	2625.9	2889.3
20°	1675.4	1665.3	1600.9	1595.9	1642.6	1672.8	1795.1	1977.9	2264.1	2680.0	2998.9
22.5°	1766.1	1754.7	1657.7	1660.2	1710.6	1740.9	1860.6	2023.3	2295.5	2746.9	3116.2
25°	1884.6	1872.0	1757.3	1752.2	1805.2	1831.6	1957.7	2103.9	2339.7	2830.0	3270.0
27.5°	2042.2	2015.7	1878.3	1870.7	1927.5	1961.5	2074.9	2212.3	2417.8	2944.8	3476.7
30°	2172.0	2143.0	2011.9	1991.7	2052.2	2078.7	2195.9	2358.6	2571.6	3145.2	3762.9
32.5°	2342.2	2299.3	2145.6	2092.6	2156.9	2190.9	2371.2	2630.9	2799.8	3356.9	4103.2
35°	2725.4	2698.9	2511.1	2325.8	2322.0	2364.9	2629.6	2905.7	3034.2	3687.3	4567.1
37.5°	3273.8	3254.8	3055.7	2807.3	2735.5	2715.3	2943.5	3208.2	3408.7	4141.1	5106.6
40°	3910.4	3866.2	3683.5	3472.9	3379.6	3320.4	3314.1	3658.3	3897.8	4757.5	5668.9
42.5°	4366.7	4286.0	4064.1	4049.0	4028.9	3967.1	3788.1	4316.3	4529.3	5420.6	6270.2
45°	4845.8	4723.5	4393.2	4336.4	4328.9	4325.1	4504.1	5095.4	5217.6	6139.1	6887.9
47.5°	5217.6	5120.5	4849.5	4824.3	4855.8	4941.5	5450.8	5922.2	5897.1	6779.5	7406.0
50°	5713.0	5639.9	5338.6	5386.5	5549.2	5689.0	6518.5	6823.6	6455.5	7283.7	7783.0
52.5°	6297.9	6163.0	5883.2	6013.1	6262.7	6495.9	7651.8	7612.7	6847.6	7663.2	8064.0
55°	6804.7	6708.9	6613.1	6747.9	7121.1	7412.3	8675.4	8204.0	7132.4	7968.2	8187.6
57.5°	7661.9	7639.2	7540.9	7678.2	8130.9	8433.4	9591.9	8662.8	7315.3	8127.1	8042.6
60°	8930.1	8893.5	8710.7	8885.9	9475.9	9951.1	10436.5	9075.1	7356.8	8065.3	7625.3
62.5°	10455.4	10330.6	10174.2	10432.7	11242.0	11451.2	11231.9	9319.5	7201.8	7573.6	6619.4
65°	11879.9	11751.3	11755.1	12299.6	13180.8	13323.2	12159.7	9283.0	6747.9	6342.1	4882.3
67.5°	12970.2	12948.9	13102.6	14165.3	15317.5	15219.2	12989.2	8735.9	5402.9	4110.8	2594.3
70°	13025.7	13067.4	13508.6	15302.3	16472.2	16315.9	12918.6	7100.9	3368.3	1890.9	1022.3
71°	12355.1	12634.9	13245.1	15267.1	16540.3	16337.4	12323.6	5947.5	2470.8	1318.6	737.5
72.5°	10528.5	10676.0	11994.6	14368.2	16002.0	15568.3	10814.7	4168.8	1582.1	806.8	423.5
75°	5798.8	6161.8	8032.5	11272.3	12798.8	12418.1	7048.0	1980.4	789.1	441.2	175.3
77.5°	2760.7	2690.1	3919.2	6703.9	8677.9	8657.8	3551.1	879.9	460.1	298.7	88.2
80°	789.1	887.4	1500.1	3186.8	4818.0	4870.9	1363.9	424.8	318.9	233.2	45.4
82.5°	238.3	243.3	550.9	1409.3	2396.4	2259.0	511.8	216.8	229.4	185.3	26.5
85°	41.6	51.7	162.6	496.7	913.9	693.3	128.6	103.4	151.3	122.3	15.1
87.5°	2.5	3.8	54.2	56.8	80.7	46.7	22.7	15.1	32.8	32.8	8.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2640.9	2640.9	2640.9	2640.9	2640.9	2640.9	2640.9	2640.9	2640.9	2640.9	2640.9
2.5°	2649.7	2657.3	2652.3	2640.9	2622.1	2599.4	2569.1	2543.9	2522.4	2511.1	2524.9
5°	2666.1	2676.2	2651.0	2594.3	2508.6	2415.3	2309.4	2227.5	2163.2	2143.0	2135.5
7.5°	2691.4	2697.7	2629.6	2503.6	2322.0	2101.4	1908.6	1745.9	1619.9	1582.1	1526.6
10°	2724.2	2720.4	2591.8	2357.3	2038.4	1706.8	1408.1	1186.2	1018.5	958.1	953.0
12.5°	2774.5	2754.4	2543.9	2158.2	1700.5	1266.9	897.5	702.2	596.3	560.9	553.4
15°	2837.6	2789.7	2468.3	1925.0	1302.2	818.1	553.4	494.2	480.3	477.8	475.2
17.5°	2912.0	2836.4	2368.7	1638.8	915.2	530.7	462.6	461.4	462.6	460.1	458.8
20°	3012.8	2885.5	2250.2	1299.7	605.1	447.5	441.2	441.2	442.5	441.2	441.2
22.5°	3119.9	2943.5	2103.9	992.1	456.3	424.8	423.5	426.1	428.6	427.3	427.3
25°	3252.3	3019.1	1911.1	679.4	408.5	406.0	407.2	412.2	417.2	418.5	417.2
27.5°	3444.0	3112.4	1704.3	467.7	374.4	376.9	389.6	402.2	409.7	410.9	410.9
30°	3659.5	3215.8	1434.6	379.5	346.7	346.7	361.8	385.8	402.2	404.7	406.0
32.5°	3936.8	3335.6	1135.8	341.6	320.2	317.6	331.5	360.5	390.8	399.6	399.6
35°	4279.7	3476.7	844.6	317.6	301.2	294.9	302.5	326.5	365.6	390.8	393.3
37.5°	4681.8	3610.3	617.7	296.2	283.7	274.8	279.9	298.7	330.3	368.1	378.2
40°	5053.7	3728.8	461.4	278.6	266.0	259.7	263.5	272.3	298.7	334.0	340.4
42.5°	5459.6	3820.8	366.8	259.7	248.3	245.8	245.8	249.6	267.3	287.5	288.7
45°	5864.3	3853.6	307.6	237.0	229.4	231.9	230.7	228.2	235.7	233.2	233.2
47.5°	6152.9	3814.5	254.7	215.5	215.5	219.3	213.0	204.2	200.4	185.3	186.5
50°	6350.9	3672.1	209.2	190.3	200.4	205.5	192.8	179.0	165.2	148.8	145.0
52.5°	6432.8	3418.7	171.5	157.6	177.7	184.0	169.0	152.6	131.1	117.2	113.5
55°	6379.9	3106.1	142.5	128.6	150.0	157.6	142.5	123.5	99.6	84.4	81.9
57.5°	6146.7	2733.0	121.0	102.1	119.8	124.8	114.7	94.5	70.6	55.5	55.5
60°	5743.3	2347.2	98.3	80.7	89.5	97.1	87.0	68.0	47.9	34.1	31.5
62.5°	4925.1	1906.0	79.4	63.0	63.0	69.3	60.5	49.2	30.3	17.7	16.4
65°	3556.2	1307.3	63.0	46.7	45.4	45.4	37.8	32.8	17.7	7.6	5.0
67.5°	1932.5	737.5	50.5	35.3	31.5	30.3	24.0	18.9	7.6	1.3	0.0
70°	760.2	283.7	39.1	24.0	20.2	18.9	12.6	8.8	5.0	0.0	0.0
71°	515.6	195.4	34.1	20.2	16.4	13.9	10.1	7.6	3.8	0.0	0.0
72.5°	294.9	121.0	26.5	15.1	12.6	10.1	7.6	5.0	3.8	0.0	0.0
75°	128.6	61.7	16.4	11.4	8.8	6.3	5.0	3.8	1.3	0.0	0.0
77.5°	65.5	34.1	11.4	8.8	5.0	3.8	2.5	1.3	0.0	0.0	0.0
80°	36.6	17.7	7.6	5.0	3.8	2.5	1.3	1.3	0.0	0.0	0.0
82.5°	20.2	10.1	3.8	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.6	6.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	2.5	0.0	0.0	0.0	0.0	1.3	1.3	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)